AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

(Currently Amended) A method for producing a radioactive fluorine compound
comprising the steps of: introducing [¹⁸F] fluoride ion-containing [¹⁸O] water into a column
packed with an ion exchange resin to collect [¹⁸F] fluoride ions; and causing a substrate to react
with the collected [¹⁸F] fluoride ions, characterized in that the ion exchange resin is represented
by the following general formula (1):

wherein n represents an integer from is 1 to 10; R represents is a linear <u>butyl grouper</u> branched monovalent hydrocarbon group having 1 to 8 carbon atoms; P represents is a polystyrene-divinylbenzene styrene-copolymer; and Y represents an anion is CO₃²⁻ or HCO³.

- (Cancelled).
- (Original) The method for producing a radioactive fluorine compound according to Claim 1, wherein the [¹⁸F] fluoride ion-containing [¹⁸O] water is introduced into the column in an amount of 1 g to 20 g.